

CLAIMS

We claim:

1. A suspension article, comprising:

a frame;

5 a substantially uniplaner, non-woven grid integrally formed with a pair of attachment strips; and

a plurality of fasteners attaching said uniplaner, non-woven grid to said frame through said attachment strips.

2. A suspension article according to claim 1, wherein said plurality of fasteners is a pair of J-strip fasteners integrally formed with said attachment strips.

3. A suspension article according to claim 1, wherein said substantially uniplaner, non-woven grid comprises closely-spaced primary members and points of intersection, said closely-spaced primary members being connected by said points of intersection.

4. A suspension article according to claim 3 wherein said points of intersection are in line between said attachment strips, thereby forming a plurality of ribs substantially perpendicular to said closely-spaced primary members.

5. A suspension article according to claim 3 wherein said points of intersection are located at said attachment strips.

6. A suspension article according to claim 1, wherein each of said attachment strips is comprised of a pre-stretched grid section.

7. A suspension article according to claim 1, wherein each of said attachment strips has a wire embedded therein.

8. A suspension article according to claim 1, wherein at least one of said plurality of fasteners is an actuated fastener attached to one of said pair of attachment strips.

9. A suspension article according to claim 8, wherein said actuated fastener comprises an individual fastener, an actuator, and a bowden cable, said bowden cable having an unsheathed bowden cable section connecting said frame to said one attachment strip through said individual fastener and a sheathed bowden cable section connecting said frame to said actuator.

10. A suspension article, comprising:
a frame; and
a substantially uniplaner, non-woven grid integrally formed with a pair of J-strip fasteners, said J-strip fasteners attaching said grid to said frame.

11. A suspension article according to claim 10, wherein at least one of said J-strip fasteners is an actuated fastener.

12. A suspension article according to claim 10, wherein said substantially uniplaner, non-woven grid comprises closely-spaced primary members and points of intersection, said closely-spaced primary members being connected by said points of intersection.

13. A suspension article according to claim 12 wherein said points of intersection are in line between said J-strip fasteners, thereby forming a plurality of ribs substantially perpendicular to said closely-spaced primary members.

14. A suspension article according to claim 12 wherein said points of intersection are located at said J-strip fasteners.

15. A process for producing a suspension article for a support structure having a frame, comprising the steps of:

forming a grid integrally with attachment strips; and
stretching said grid between and attaching said grid to the frame through said attachment strips.

16. A process according to claim 15, further comprising the step of:

inserting a wire into said parallel attachment strips while forming said grid.

17. A process according to claim 15, wherein said attachment strips are formed intermittently.

5 18. A process according to claim 15, wherein said attachment strips are a pair of J-strip fasteners.

19. A process according to claim 15, wherein said forming step is performed by extruding said grid.

20. A process according to claim 15, wherein said forming step is performed by injection molding said grid.